

Known Heat Shock-Induced Genes:

<i>ibpA</i>	CAAAAAAAAAAGTCCGCTGATAAGGCTTGAAAAAGTTTCATTT-----CCAGACCCCATTTTACATCGTAGCC	SEQ.ID.NO.: 23
<i>yrfG</i>	ATTCAGGCCTATTATGAAAGCTGCTGAACCCGCAACTG-----ATCACCCCTTCAGAAAGCCTTATGC	24
<i>yccV</i>	CCGGTCTGATGACCAAGGATTTATTTTCAGAAAATCACGG-----GATGCGGCAATTGATGCCGCAATTG	25
<i>fxsA</i>	ACCAAAAAATAGTTGCGCAACACATCTTGAAATTTTGCTA-----ATGACCAACAATATAAGCTAAACGCG	26
<i>dnaK</i>	ACAAAAAATTTTGCATCTCCCTTGATGACGTGGTTT-----ACGACCCCAATTAGTAGTCAACCGC	27
<i>hipG</i>	GAGAGCAGGATCACCTGCTCTCGCTTGAAATTAATCTCCC-----TTGTCCCCATCTCTCCACATCCTG	28
<i>clpP</i>	CGTAACAACAAAAGATTGTTATGCTTGAAATATGGTGATG-----CAGTACCCCATTAACACAGGACTAGC	29
<i>clpB</i>	TTACATTAATCTGTCATAAACCCTTGAAATAATTGAGG-----ATGACCTCATTTAAATCTCCAGTAGC	30
<i>hsIV</i>	CTGCATTCGGCTCGCCCGGGGGTTGAAACCCCTCAAAA-----TCCCCCCCCTATAAATTGCATTAT	31
<i>groES</i>	CAGAAATTTTTTTTCTTTTCCCCCTTGAAAGGGCGGAAGCC-----TCATCCCCCATTTCTCTGGTCACCCAG	32
<i>lon</i>	TTAAATTTTCCCTCTAATCTCGGCGTTGAATGTGGGGAA-----ACATCCCCCATATACTGACGTACATG	33
<i>hipX</i>	TGGTGACTTACGCACATATCCAGACTTGAAATAAGTCG-----CGTAACCCCATACGATGTGGGTATCG	34
<i>grpE</i>	TTGATGACAATGTGAGTGCTTCCCTTGAAACCCCTGAAAC-----TGATCCCCCATTAATAAGCGAAGTTAG	35
<i>rrmJ</i>	TCGTATTTTTTGCTTACGTTGGGATTGAAAAACGGGTCAATT---CTACCGCCCATCTCCCATATATCACC	36
consensus	--GAA-----AT-----T--T--C-CTTGAAA-----G-----C--CCCCAT-T-----	37

Additional Genes Induced by Translational Misfolding:

<i>yagU</i>	TGATGATGGGAGCTGGTTTATTGCTTTAGTTGTACGATGC---AAAAACCAATAAGGAAACCTGTGAT	SEQ.ID.NO.: 38
<i>yciS</i>	TTTTCCGAATTTAGCCCTTAAATCATCAACAATGCGTG-----TGGATGCCATTTTCGCAGACGGCGC	39
<i>ybeD</i>	CTGGTTTGGTTAAAAAATTAAACACTTGAAAGTGTAATTT-----CCGTCCCCCATATATAAGCATCAGT	40
<i>araE</i>	ATAATCTCAATAAATCAAACTTAATTTGAAAAATTGGAATA-----TCCATCACATAACGACATGTCCGAG	41
<i>exbB</i>	TTTGCTGCGTCCTGCATTCACCAGTTGAGTATCAAGCTTTT---TGTCGGCCATGTCCGGATTCTCTGTT	42
<i>yglI</i>	GCAACCTGAAAAAATGCCTTTTCGTCTTGAATTGCCCGTGCA---AGGTGCGCCATATGGTGATTGTGGAT	43

Figure 1

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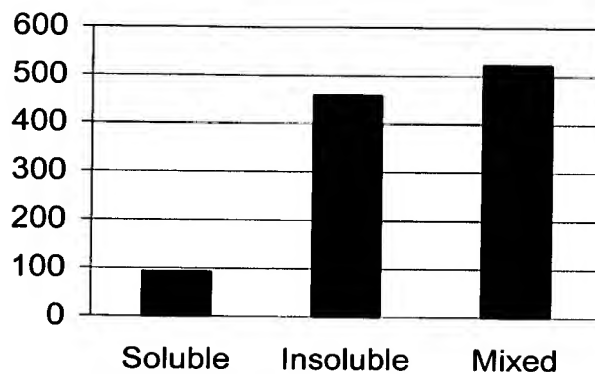
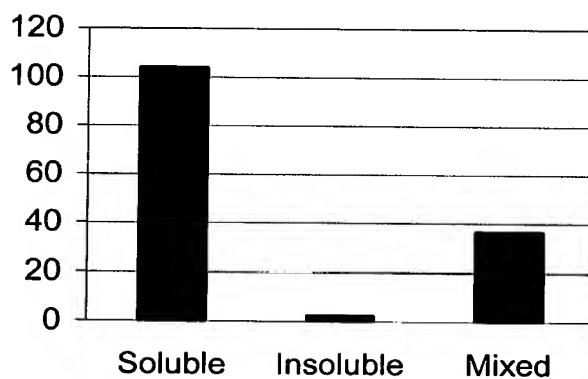
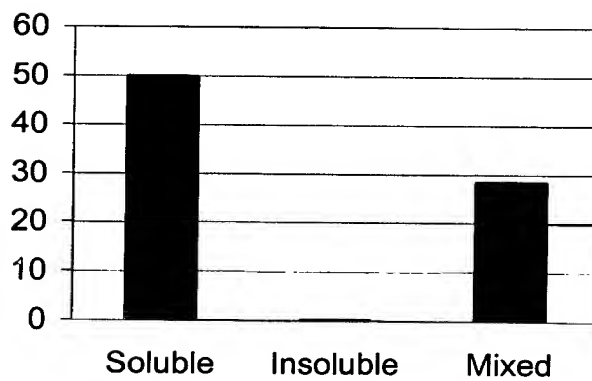
A. Relative β -galactosidase activity**B. Relative NiHRP absorbance****C. Solubility Scores**

Figure 2

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Summary of Screening Results for 186 *T. maritima*
proteins

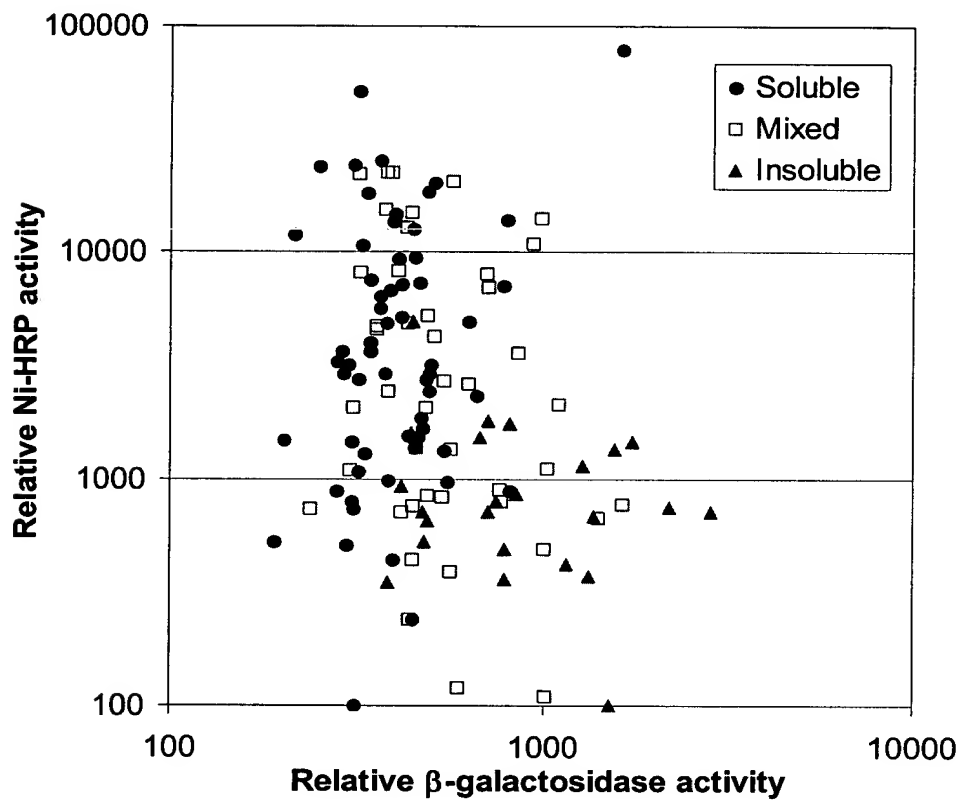


Figure 3

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-4.5

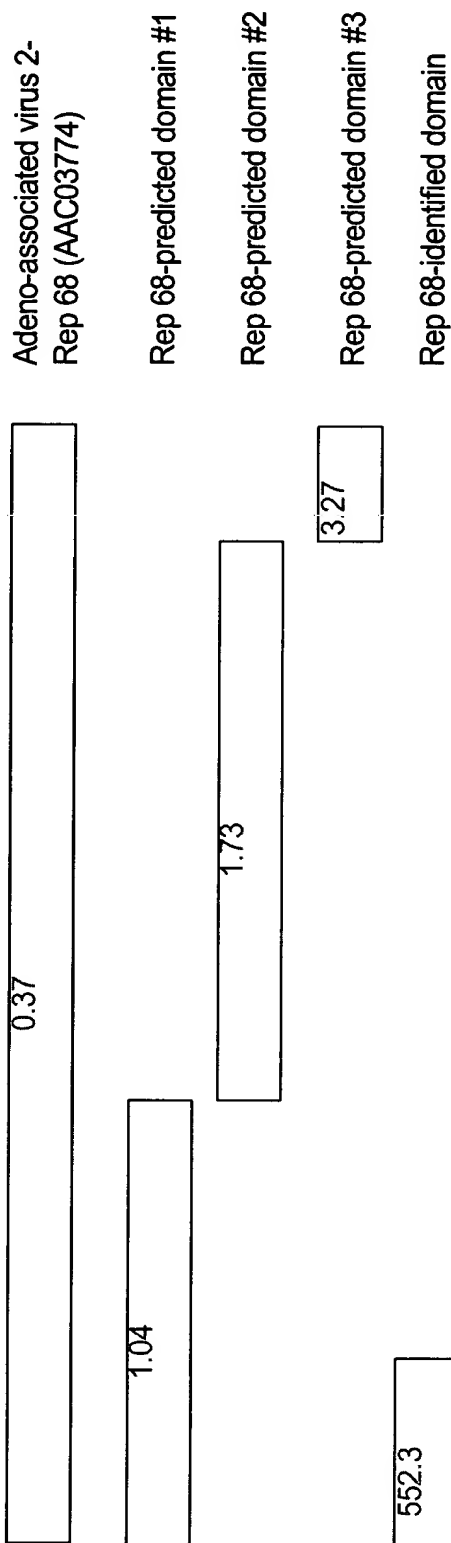


Figure 4